Contents to volume 306

Research Letters

Mitogen-induced expression of the primary response gene cMGI in a rat intestinal epithelial cell-line (RIE-1) (FEBS 11254) *M.G. Gomperts, A.N. Corps, J.C. Pascall, K.D. Brown* 1

Separation of gate- and channel-forming domains in the pore-forming protein of the outer membrane of *Pseudomonas aeruginosa* (FEBS 11260) *E. Yoshihara, T. Nakae* 5

Characterization of the *Lactococcus lactis pepN* gene encoding an aminopeptidase homologous to mammalian aminopeptidase N (FEBS 11283) *P.S.T. Tan, I.J. van Alen-Boerrigter, B. Poolman, R.J. Siezen, W.M. de Vos, W.N. Konings* 9

Ordered phosphorylation of $p42^{mapk}$ by MAP kinase kinase (FEBS 11257) *T.A.J. Haystead, P. Dent, J. Wu, C.M.M. Haystead, T.W. Sturgill* 17

Oxidation of methylamine by a *Paracoccus denitrificans* mutant impaired in the synthesis of the bc_1 complex and the aa_3-type oxidase: Evidence for the existence of an alternative cytochrome *c* oxidase in this bacterium (FEBS 11259) *J.-W.L. De Gier, R.J.M. Van Spanning, L.F. Oltmann, A.H. Stouthamer* 23

The nucleotide sequence of the S RNA of *Impatiens* necrotic spot virus, a novel tospovirus (FEBS 11265) *P. de Haan, A.C. de Avila, R. Kormelink, A. Westerbroek, J.J.L. Gielen, D. Peters, R. Goldbach* 27

Expression of blood clotting Factor VIII:C gene in capillary endothelial cells (FEBS 11251) *D.K. Banerjee, J.J. Tavárez, C.M. Oliveira* 33

Alcohol dehydrogenase (ADH): Influence of homo- and heterologous ADH administration on albino rats craving for alcohol and on ADH isozyme activity in the liver (FEBS 11274) *I.P. Ashmarin, R.A. Danilova, A.V. Pshezhetsky, I.M. Fedorova, M.F. Obukhova, S. Sagimbaeva* 38

Properties of *Pseudomonas aeruginosa* exotoxin A ionic channel incorporated in planar lipid bilayers (FEBS 11296) *F. Gambale, G. Rauch, G. Belmonte, G. Menestrina* 41

Differential inhibition of abortive transcription initiation at different promoters catalysed by *E. coli* RNA polymerase: Effect of rifampicin on purine or pyramidine-initiated phosphodiester synthesis (FEBS 11267) *K.P. Kumar, D. Chatterji* 46

Characteristic differences in the mode of quinone reduction and stability between energy-coupled and -uncoupled NADH-quinone reductases from bacterial respiratory chain (FEBS 11276) *T. Unemoto, T. Miyoshi, M. Hayashi* 51

Polymerase chain reactions using *Saccharomyces, Drosophila* and human DNA predict a large family of protein serine/threonine phosphatases (FEBS 11236) *M.X. Chen, Y.H. Chen, P.T.W. Cohen* 54

Phosphorylation and inactivation of HMG-CoA reductase at the AMP-activated protein kinase site in response to fructose treatment of isolated rat hepatocytes (FEBS 11261) *J.G. Gillespie, D.G. Hardie* 59

Natural polypeptides in left-handed helical conformation: A circular dichroism study of the linker histones' C-terminal fragments and β-endorphin (FEBS 11281) *A.A. Makarov, V.M. Lobachov, I.A. Adzhubei, N.G. Esipova* 63

The lysine-rich H1 histones from the slime moulds, *Physarum polycephalum* and *Dictyostelium discoideum* lack phosphorylation sites recognised by cyclic AMP-dependent protein kinase in vitro (FEBS 11285) *R.J. Heads, B.G. Carpenter, H.V. Rickenberg, T.C. Chambers* 66

Transfer of a chloroplast-bound precursor protein into the translocation apparatus is impaired after phospholipase C treatment (FEBS 11284) *B. Kerber, J. Soll* 71

A model of the structure of human annexin VI bound to lipid monolayers (FEBS 11287) *H.P.C. Driessen, R.H. Newman, P.S. Freemont, M.J. Crumpton* 75

A TIM barrel protein without enzymatic activity?: Crystal-structure of narbonin at 1.8 Å resolution (FEBS 11235) *M. Hennig, B. Schlesier, Z. Dauter, S. Pfeffer, C. Betzel, W.E. Höhne, K.S. Wilson* 80

Detection of VAC-β (annexin-8) in human placenta (FEBS 11237) *R.B. Pepinsky, R. Hauptmann* 85

Cyclin A-Cys41 does not undergo cell cycle-dependent degradation in *Xenopus* extracts (FEBS 11275) *T. Lorca, A. Devault, P. Colas, A. Van Loon, D. Fesquet, J.B. Lazaro, M. Dorée* 90

Hypothesis

On the activation–inactivation coupling in *Shaker* potassium channels (FEBS 11279) *C.-Y. Lee* 95

Research Letters

Barley (1→3,1→4)-β-glucanase isoenzyme EI gene expression is mediated by auxin and gibberellic acid (FEBS 11263) *N. Slakeski, G.B. Fincher* 98

A functional tomato ACC synthase expressed in *Escherichia coli* demonstrates suicidal inactivation by its substrate *S*-adenosylmethionine (FEBS 11264) *N. Li, Z. Wiesman, D. Liu, A.K. Mattoo* 103

A rapid-kinetic study of the class C β-lactamase of *Enterobacter cloacae* 908R (FEBS 11269) *D. Monnaie, R. Virden, J.-M. Frère* 108

Modulation of cardiac Ca^{2+} channels in *Xenopus* oocytes by protein kinase C (FEBS 11268) *D. Singer-Lahat, E. Gershon, I. Lotan, R. Hullin, M. Biel, V. Flockerzi, F. Hofmann, N. Dascal* 113

Crystal structure of *Pseudomonas aeruginosa* apo-azurin at 1.85 Å resolution (FEBS 11270) *H. Nar, A. Messerschmidt, R. Huber, M. van de Kamp, G.W. Canters* 119

Photogeneration of NADH under coupled action of CdS semiconductor and hydrogenase from *Alcaligenes eutrophus* without exogenous mediators (FEBS 11272) *I.A. Shumilin, V.V. Nikandrov, V.O. Popov, A.A. Krasnovsky* 125

On the functional role of the Tyr-639 residue of bacteriophage T7 RNA polymerase (FEBS 11273) *V.O. Rechinsky, D.A. Kostyuk, V.L. Tunitskaya, S.N. Kochetkov* 129

Codon context effect in virus translational readthrough: A study in vitro of the determinants of TMV and Mo-MuLV amber suppression (FEBS 11282) *R.P.C. Valle, G. Drugeon, M.-D. Devignes-Morch, A.B. Legocki, A.-L. Haenni* 133

Evidence for the tetraplex structure of the $d(GT)_n$ repetitive sequences in solution (FEBS 11277) *O.F. Borisova, A.K. Shchyolkina, E.N. Timofeev, V.L. Florentiev* 140

Transmembrane electron transport in ascorbate-loaded plasma membrane vesicles from higher plants involves a *b*-type cytochrome (FEBS 11286) *H. Asard, N. Horemans, R.J. Caubergs* 143

Y_2 receptor proteins for peptide YY and neuropeptide Y: Characterization as *N*-linked complex glycoproteins (FEBS 11288) *A.P. Hansen, S.P. Sheikh* 147

Fidelity of the reverse transcriptase of human immunodeficiency virus type 2 (FEBS 11289) *M. Bakhanashvili, A. Hizi* 151

Generation of Gla-domainless FVIIa by cathepsin G-mediated cleavage (FEBS 11290) *E.M. Nicolaisen, L.C. Petersen, L. Thim, J.K. Jacobsen, M. Christensen, U. Hedner* 157

Induction of thromboxane synthase and prostaglandin endoperoxide synthase mRNAs in human erythroleukemia cells by phorbol ester (FEBS 11291) *H. Ihara, C. Yokoyama, A. Miyata, T. Kosaka, R. Nüsing, V. Ullrich, T. Tanabe* 161

Cellobiose oxidase from *Phanerochaete chrysosporium*: Stopped-flow spectrophotometric analysis of pH-dependent reduction (FEBS 11294) *M. Samejima, R.S. Phillips, K.-E.L. Eriksson* 165

Expression of c-*fos*, c-*jun*, *jun*-B, metallothionein and metalloproteinase genes in human chondrocyte (FEBS 11297) *M. Zafarullah, J. Martel-Pelletier, J.-M. Cloutier, L. Gedamu, J.-P. Pelletier* 169

Ca^{2+}/calmodulin is involved in growth factor-induced retinoblastoma gene product phosphorylation in human vascular endothelial cells (FEBS 11293) *N. Takuwa, W. Zhou, M. Kumada, Y. Takuwa* 173

Preparation of a stable subunit of Japanese elderberry (*Sambucus sieboldiana*) bark lectin and its application for the study of cell surface carbohydrates by flow cytometry (FEBS 11298) *H. Kaku, N. Shibuya* 176

Molecular cloning of a novel ras-like protein from chicken (FEBS 11301) *J. Trueb, B. Trueb* 181

3′-Mercapto-2′,3′-dideoxynucleotides are high effective terminators of DNA synthesis catalyzed by HIV reverse transcriptase (FEBS 11307) *A.A. Yuzhakov, Z.G. Chidgeavadze, R.S. Beabealashvilli* 185

Crystal and molecular structure of RNase Rh, a new class of microbial ribonuclease from *Rhizopus niveus* (FEBS 11310) *H. Kurihara, Y. Mitsui, K. Ohgi, M. Irie, H. Mizuno, K.T. Nakamura* 189

The receptor for the plasminogen activator of urokinase type is up-regulated in transformed rat thyroid cells (FEBS 11300) *P. Ragno, S. Cassano, J. Degen, C. Kessler, F. Blasi, G. Rossi* 193

Involvement of a *d*-type oxidase in the Na^+-motive respiratory chain of *Escherichia coli* growing under low $\Delta\mu_{H^+}$ conditions (FEBS 11306) *A.V. Avetisyan, A.V. Bogachev, R.A. Murtasina, V.P. Skulachev* 199

Age and sex influence expression of plasmid DNA directly injected into mouse skeletal muscle (FEBS 11303) *D.J. Wells, G. Goldspink* 203

Identification of a novel transthyretin variant (Val^{30}→Leu) associated with familial amyloidotic polyneuropathy (FEBS 11311) *M. Nakazato, S.-i. Ikeda, K. Shiomi, S. Matsukura, K. Yoshida, H. Shimizu, T. Atsumi, K. Kangawa, H. Matsuo* 206

Independence of the carotene and sterol pathways of *Phycomyces* (FEBS 11313) *E.R. Bejarano, E. Cerdá-Olmedo* 209

Deduced amino acid sequence and E_1–E_2 equilibrium of the sarcoplasmic reticulum Ca^{2+}-ATPase of frog skeletal muscle: Comparison with the Ca^{2+}-ATPase of rabbit fast twitch muscle (FEBS 11315) *B. Vilsen, J.P. Andersen* 213

The hepatic interleukin-6 receptor: Down-regulation of the interleukin-6 binding subunit (gp80) by its ligand (FEBS 11308) *D. Zohlnhöfer, L. Graeve, S. Rose-John, H. Schooltink, E. Dittrich, P.C. Heinrich* 219

NMR study of self-paired parallel duplex of d(AAAAACCCCC) in solution (FEBS 11309) *J. Luo, M.H. Sarma, R.-d. Yuan, R.H. Sarma* 223

Loss of transcriptional repression contributes to the ectopic expression of the calcitonin/α-CGRP gene in a human lung carcinoma cell line (FEBS 11314) *A.J. Symes, R.K. Craig, P.M. Brickell* 229

Computational approach towards the three-dimensional structure of *E. coli* tyrosine aminotransferase (FEBS 11299) *J. Jäger, T. Solmajer, J.N. Jansonius* 234

Di-myo-inositol-1,1′-phosphate: a new inositol phosphate isolated from *Pyrococcus woesei* (FEBS 11305) *S. Scholz, J. Sonnenbichler, W. Schäfer, R. Hensel* 239

Stabilization of basic fibroblast growth factor with dextran sulfate (FEBS 11312) *T. Kajio, K. Kawahara, K. Kato* 243

Mutational analysis of the role of Glu^{309} in the sarcoplasmic reticulum Ca^{2+}-ATPase of frog skeletal muscle (FEBS 11316) *B. Vilsen, J.P. Andersen* 247

Fast and slow kinetics of porin channels from *Escherichia coli* reconstituted into giant liposomes and studied by patch-clamp (FEBS 11319) *C. Berrier, A. Coulombe, C. Houssin, A. Ghazi* 251

Soluble human interleukin-6-receptor modulates interleukin-6-dependent *N*-glycosylation of α_1-protease inhibitor secreted by HepG2 cells (FEBS 11323) *A. Mackiewicz, S. Rose-John, H. Schooltink, M. Laciak, A. Górny, P.C. Heinrich* 257

Construction and functional analysis of hybrid interleukin-6 variants: Characterization of the role of the C-terminus for species specificity (FEBS 11258) *F.W.G. Leebeek, D.M. Fowlkes* 262

Two different Ca^{2+} ion binding sites in factor VIIa and in des(1–38) factor VIIa (FEBS 11302) *J. Schiødt, N. Harrit, U. Christensen, L.C. Petersen* 265

Regeneration of vitamin E in rat polymorphonuclear leucocytes (FEBS 11255) *C.T. Ho, A.C. Chan* 269

Carbon-by-carbon discrimination of ^{13}C incorporation into liver fatty acids (FEBS 11280) *S.C. Cunnane* 273

Book Reviews and Booklist no. 108 276

Author Index to volume 306 287

Contents to volume 306 291